

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
28 April 2005 (28.04.2005)

PCT

(10) International Publication Number
WO 2005/037152 A1

(51) International Patent Classification⁷: **A61F 5/00, 2/04**

(21) International Application Number:
PCT/US2004/033007

(22) International Filing Date: 8 October 2004 (08.10.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/510,268 10 October 2003 (10.10.2003) US
10/843,702 11 May 2004 (11.05.2004) US
10/898,036 23 July 2004 (23.07.2004) US

(71) Applicant (for all designated States except US):
SYNECOR, LLC [US/US]; 3908 Patriot Drive, Suite
170, Durham, NC 27703 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **STACK, Richard, S.** [US/US]; 106 Alder Place, Chapel Hill, NC 27514 (US). **BALBIERZ, Dan** [US/US]; 973 Cambridge Road, Redwood City, CA 94061 (US). **LUNSFORD, John** [US/US]; 123 Leslie Drive, San Carlos, CA 94070 (US). **VAN BLADEL, Kevin** [US/US]; 1425 Murdell Lane, Livermore, CA 94550 (US). **EUBANKS, William, S., Jr.** [US/US]; 2570 South Winding Trail Drive, Columbia, MO 65201 (US). **ATHAS, William, L.** [US/US];

81607 Alexander, Chapel Hill, NC 27517 (US). **GLENN, Richard, A.** [US/US]; 1519 Branch Owl Place, Santa Rosa, CA 95492 (US). **KOURI, Richard** [US/US]; 1108 Baslow Brook Court, Raleigh, NC 27614 (US).

(74) Agents: **FROST, Kathleen, A.** et al.; Stallman & Pollock LLP, Suite 2200, 353 Sacramento Street, San Francisco, CA 94111 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

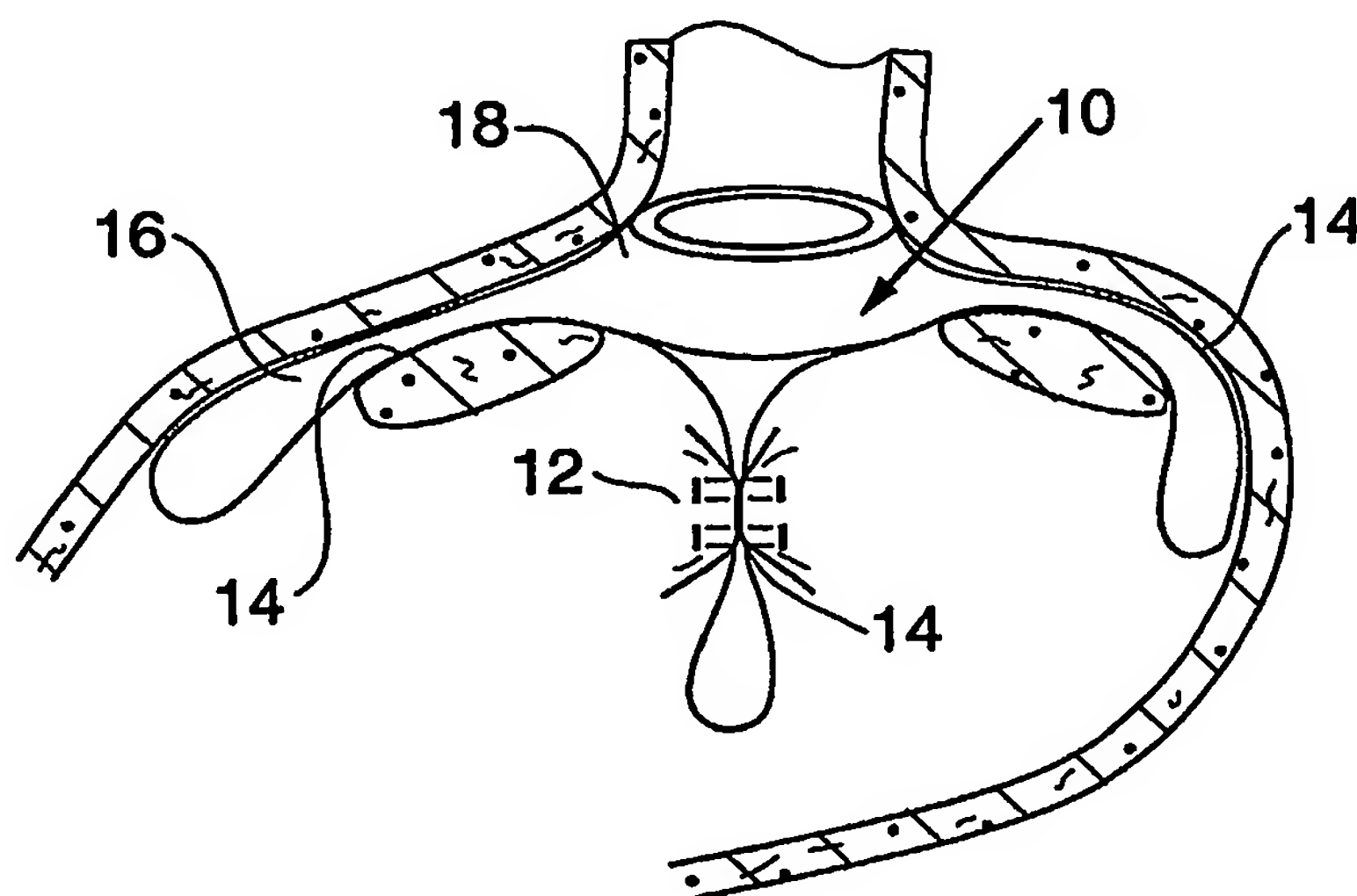
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

[Continued on next page]

(54) Title: DEVICES AND METHODS FOR RETAINING A GASTRO-ESOPHAGEAL IMPLANT



(57) Abstract: Various methods and devices are described for retaining a medical implant within a body cavity. According to one aspect, at least a portion (16) of a medical implant is positioned within a body cavity, and a wall of the body cavity is re-shaped such that the re-shaped wall (14) prevents migration of the medical implant out of the body cavity. The re-shaped body wall may form a tissue pocket, tunnel, or other barrier against migration of the implant.



For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.